

U.S. Department of Energy
Washington, D.C.

PAGE CHANGE

DOE 5480.22 Chg 1

9-15-92

SUBJECT: TECHNICAL SAFETY REQUIREMENTS

1. PURPOSE. This Page Change transmits revised pages to DOE 5480.22, TECHNICAL SAFETY REQUIREMENTS, of 2-25-92.
2. EXPLANATION OF CHANGE. This Order has been changed to modify page 19, subparagraph (3), of Attachment 1. This change is to permit additional time to complete a surveillance, if justified, to avoid subjecting the facility to unnecessary transients. Additionally, a change has been made to correct a typographical error on page 1, paragraph 2b, of the base Order.
3. FILING INSTRUCTIONS.

a.	<u>Remove Page(s)</u>	<u>Dated</u>	<u>Insert Page</u>	<u>Dated</u>
	1 and 2	2-25-92	1	9-15-92
			2	2-25-92
	Atch 1, pages 19	2-25-92	Atch 1, page 19	9-15-92
	thru 22		Atch 1, page 20	2-25-92
			Atch 1, pages 21	2-25-92
			and 22	

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- b. After filing the attached pages, this transmittal may be discarded.

BY ORDER OF THE SECRETARY OF ENERGY:



DOLORES L. ROZZI
Director of Administration
and Management

DISTRIBUTION:
All Departmental Elements

INITIATED BY:
Assistant Secretary for
Nuclear Energy

U.S. Department of Energy
Washington, D.C.

ORDER

DOE 5480.22

2-25-92

SUBJECT: TECHNICAL SAFETY REQUIREMENTS

Change 1: 9-15-92

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1. PURPOSE. To clearly state the requirements to have Technical Safety Requirements (TSR) prepared for Department of Energy (DOE) nuclear facilities and to delineate the criteria, content, scope, format, approval process, and reporting requirements of these documents and revisions thereof.
 2. CANCELLATIONS.
 - a. Paragraphs 5h, 7e(4), and 8d of DOE 5480.5, SAFETY OF NUCLEAR FACILITIES, as of 9-23-86.
 - b. Paragraphs 5v, 7e(4), and 8d of DOE 5480.6, SAFETY OF DEPARTMENT OF ENERGY-OWNED NUCLEAR REACTORS, as of 9-23-86.
 3. SCOPE. The provisions of this Order apply to all Departmental Elements and to covered contractors to the extent implemented under a contract or other agreement. A covered contractor is a seller of supplies or services, involving a DOE-owned or -leased nuclear facility, under a contract or subcontract containing one of four contract clauses as follows: (a) Safety and Health (Government-owned or -leased facility) [DEAR 970.5204-2], (b) Nuclear Facility Safety [DEAR 970.5204-26], (c) Radiation Protection and Nuclear Criticality [DEAR 952.223-72], or (d) another clause whereby DOE elects to require compliance with DOE nuclear safety requirements. The provisions of this Order will be applied to DOE-owned nuclear facilities and operations exempt from Nuclear Regulatory Commission (NRC) licensing, excluding those facilities and activities conducted under Executive Order 12344 and Public Law 98-525.
 4. EXCLUSIONS.

Director of the Naval Nuclear Propulsion Program: Executive Order 12344, statutorily prescribed by P.L. 98-525 (42 U.S.C. 7158, Note) establishes the responsibilities and authorities of the Director of the Naval Nuclear Propulsion Program (who is also the Deputy Assistant Secretary for Naval Reactors within the Department) for all facilities and activities that comprise the Program, a joint Navy-DOE organization.

Vertical line denotes change.

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Requirements are requirements relating to test, calibration, or inspection to assure that the necessary quality of systems and components is maintained, that facility operation will be within the Safety Limits, and that the Limiting Control Settings and the Limiting Conditions for Operation will be met.

Application of surveillances follows four basic rules:

- (1) Surveillance Requirements must be met for all equipment/components/conditions to be considered operable.
- (2) Each Surveillance Requirement shall be performed within the specified interval, with a maximum extension of 25 percent of the interval between any two consecutive surveillances. (This extension is intended to provide operational flexibility both for scheduling and for performing surveillances. It should not be relied upon as a routine extension of the specified interval).
- (3) Failure to perform a surveillance within the required time interval or failure of a surveillance test shall result in the equipment/component/condition being declared inoperable and shall be considered a violation of the TSR and a failure to meet a Limiting Condition for Operation (LCO). When an equipment or a component fails the surveillance test, the action required by the TSR for failing to meet the LCO shall be taken. When a surveillance requirement is not performed within its required time frequency, in order to avoid subjecting the facility to unnecessary transients, e.g., scrambling a reactor, additional time may be allowed to complete a surveillance before declaring a failed LCO and taking the required action. In this case, from the time of discovery, up to 24 hours, or up to the time limit of the specified surveillance frequency, whichever is less, is allowed for performing a surveillance test. The need for this allowance and the time needed to perform the surveillance test shall be justified in the TSR Bases and be approved by the PSO.

Vertical line denotes change.